**BRUHAT BANAGLORE MAHANAGARA PALIKE**

**Executive Engineer-Yelahanka Division**

**Detailed Estimate**

**Name Of work :- Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01**

| Job Number;- 001-18-000062 | | | Estimate Amount : | 10000000.00 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Sl. No. | Particulars | Unit | Nos | L in m | B in m | D in m | Quantity | Rate in Rs | Total Amount in Rs |
| | **CIVIL WORKS** | | | | | | | | |
| 1 | Removing & Refixing stone Slab of drain and pointing in Cm (1:3) | | | | | | | | |
| | | **Sqm** | | | | | | | |
| | (Page No-25, Item No-5.33 KPWD SR 2016-17) | | | | | | | | |
| | **Rate analysis** | | | | | | | | |
| | Basic Rate in Rs. | 76.00 | | | | | | | |
| | Add 6% Area Weightage | 4.56 | | | | | | | |
| | Total Rate in Rs. | **80.56** | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Entrance to Lake | | 2 | 90.00 | 0.90 | | 162.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 0.90 | | 55.80 | | |
| | Temple Left | | 1 | 30.00 | 0.90 | | 27.00 | | |
| | | | For Missing Slabs--10% | | | | **-8.28** | | |
| | | | | | | | 74.52 | | |
| | | | | | | | **236.52** | **80.56** | **19054.05** |
| 2 | KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 | | | | | | | | |
| | | **Cum** | | | | | | | |
| | (Page No-142, Item No-19.1 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 82.00 | | | | | | | |
| | Area weightage 6% | 4.92 | | | | | | | |
| | Lead upto 10km | 100.00 | | | | | | | |
| | Total | 186.92 | | | | | | | |
| | **Desilting** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Entrance to Lake | | 2 | 90.00 | 0.50 | 0.50 | 45.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 0.50 | 0.50 | 15.50 | | |
| | Temple Left | | 1 | 30.00 | 0.50 | 0.50 | 7.50 | | |
| | **New drain** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | 1st Main Road | | 2 | 225.00 | 1.10 | 0.90 | 445.50 | | |
| | Lake Road Upto Culvert | | 1 | 87.00 | 1.10 | 0.90 | 86.13 | | |
| | **RCC Culverts** | | | | | | | | |
| | For 1st Main Road | | 6 | 4.00 | 1.40 | 1.00 | 33.60 | | |
| | Lake Entarance | | 1 | 5.00 | 1.40 | 1.00 | 7.00 | | |
| | | | | | | | **640.23** | **186.92** | **119671.79** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)/ PWD SR 2016-17 | | | | | | | | |
| | | **Cum** | | | | | | | |
| | (Page No-12, Item No-4.2 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 4867.00 | | | | | | | |
| | Area weightage 6% | 292.02 | | | | | | | |
| | Total | 5159.02 | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | 1st Main Road | | 2 | 225.00 | 1.10 | 0.15 | 74.25 | | |
| | Lake Road Upto Culvert | | 1 | 87.00 | 1.10 | 0.15 | 14.36 | | |
| | **RCC Culverts** | | | | | | | | |
| | For 1st Main Road | | 6 | 4.00 | 1.40 | 0.20 | 6.72 | | |
| | Lake Entrance | | 1 | 5.00 | 1.40 | 0.20 | 1.40 | | |
| | **New CC roads** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Road Upto Culvert | | 1 | 90.00 | 3.60 | 0.10 | 32.40 | | |
| | Cross Roads-1 | | 1 | 33.00 | 3.20 | 0.10 | 10.56 | | |
| | Cross Roads-2 | | 1 | 29.00 | 2.50 | 0.10 | 7.25 | | |
| | Cross Roads-3 | | 1 | 20.00 | 2.30 | 0.10 | 0.00 | | |
| | 1st Main road | | 1 | 230.00 | 4.40 | 0.10 | 101.20 | | |
| | **Venkatrayya Badavane** | | | | | | | | |
| | Cross Road-1 | | 1 | 85.00 | 4.00 | 0.10 | 34.00 | | |
| | Cross Road-2 | | 1 | 80.00 | 4.00 | 0.10 | 32.00 | | |
| | Cross Road-3 | | 1 | 140.00 | 4.00 | 0.10 | 56.00 | | |
| | **Vajrabhi Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 3.80 | 0.10 | 0.00 | | |
| | Temple Left | | 1 | 31.00 | 2.70 | 0.10 | 8.37 | | |
| | | | | | | | **378.51** | **5159.02** | **1952714.87** |
| 4 | KSRB 4.46.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, bending, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.46.2 | | | | | | | | |
| | | **MT** | | | | | | | |
| | (Page No-17, Item No-4.46.2 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate (Issue rate 01-01-18) | 60607.00 | | | | | | | |
| | Area weightage 6% | 3636.42 | | | | | | | |
| | Total | 64243.42 | | | | | | | |
| | **60 Kg Per Cum** | | **184.12** | | | | 11.05 | | |
| | | | | | | | **11.05** | **64243.42** | **709706.05** |
| 5 | Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. Pg No.265 Item No 37.59.2 | | | | | | | | |
| | | **Cum** | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| | (Page No-18, Item No-4.48 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 10408.00 | | | | | | | |
| | Area weightage 6% | 624.48 | | | | | | | |
| | Total | 11032.48 | | | | | | | |
| | **For Raft** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | 1st Main Road | | 2 | 225.00 | 0.90 | 0.15 | 60.75 | | |
| | Lake Road Upto Culvert | | 1 | 87.00 | 0.90 | 0.15 | 11.75 | | |
| | **RCC Culverts** | | | | | | | | |
| | For 1st Main Road | | 6 | 4.00 | 1.20 | 0.20 | 5.76 | | |
| | Lake Entarance | | 1 | 5.00 | 1.20 | 0.20 | 1.20 | | |
| | **For wall** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | 1st Main Road | | 4 | 225.00 | 0.15 | 0.60 | 81.00 | | |
| | Lake Road Upto Culvert | | 2 | 87.00 | 0.15 | 0.60 | 15.66 | | |
| | **RCC Culverts** | | | | | | | | |
| | For 1st Main Road | | 12 | 4.00 | 0.23 | 0.60 | 6.62 | | |
| | Lake Entarance | | 2 | 5.00 | 0.23 | 0.60 | 1.38 | | |
| | | | | | | | **184.12** | **11032.48** | **2031289.19** |
| | | | | | | | | | |
| 6 | Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge. (Data Rate sheet enclosed) | | | | | | | | |
| | | **Sqm** | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Data rate | 2100.00 | | | | | | | |
| | **For New Drain** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | 1st Main Road | | 2 | 225.00 | 0.90 | | 405.00 | | |
| | Lake Road Upto Culvert | | 1 | 87.00 | 0.90 | | 78.30 | | |
| | | | | | | | **483.30** | | |
| | **Vaikuntha Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 0.90 | | 55.80 | | |
| | Temple Left | | 1 | 30.00 | 0.90 | | 27.00 | | |
| | | | For Missing Slabs--10% | | | | **-8.28** | | |
| | | | | | | | **491.58** | **2100.00** | **1032318.00** |
| 7 | Providing and laying Pre Cast Drain Cover slabs of 250mm thickness including cost of all materials, labour, curing, transportation,loading, unloading etc.,complete as per the direction of Engineer - In-Charge. (Data Rate enclosed) | | | | | | | | |
| | | **Sqm** | | | | | | | |
| | **Rate anaIysis** | | | | | | | | |
| | Data rate | 5111.00 | | | | | | | |
| | **Culvert** | | | | | | | | |
| | **RCC Culverts** | | | | | | | | |
| | For 1st Main Road | | 6 | 4.00 | 1.20 | | 28.80 | | |
| | Lake Entarance | | 1 | 5.00 | 1.20 | | 6.00 | | |
| | | | | | | | **34.80** | **5111.00** | **177862.80** |

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|---|---|---|---|---|---|---|---|---|---|
| | **ROAD WORKS** | | | | | | | | |
| | Earth work in soil with hydraulic excavator of 0.9 cu.m. bucket capacity including cutting and loading in tippers, trimming bottom and side slopes. In accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. | | | | | | | | |
| | | **Cum** | | | | | | | |
| | (Page No-143, Item No-19.41 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 46.00 | | | | | | | |
| | Area weightage 6% | 2.76 | | | | | | | |
| | Lead upto 10km | 100.00 | | | | | | | |
| | Total | 148.76 | | | | | | | |
| | **New CC roads** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Road Upto Culvert | | 1 | 90.00 | 3.60 | 0.400 | 129.60 | | |
| | Cross Roads-1 | | 1 | 33.00 | 3.20 | 0.400 | 42.24 | | |
| | Cross Roads-2 | | 1 | 29.00 | 2.50 | 0.400 | 29.00 | | |
| | Cross Roads-3 | | 1 | 20.00 | 2.30 | 0.400 | 0.00 | | |
| | Tar Main road | | 1 | 230.00 | 4.40 | 0.400 | 404.80 | | |
| | **Venkatappa Badavane** | | | | | | | | |
| | Cross Road-1 | | 1 | 85.00 | 4.00 | 0.400 | 136.00 | | |
| | Cross Road-2 | | 1 | 80.00 | 4.00 | 0.400 | 128.00 | | |
| | Cross Road-3 | | 1 | 140.00 | 4.00 | 0.400 | 224.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 3.80 | 0.400 | 0.00 | | |
| | Temple Left | | 1 | 31.00 | 2.70 | 0.400 | 33.48 | | |
| | | | | | | | **1127.12** | **148.76** | **167670.37** |
| | [illegible] Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications MORTH / Chapter | | | | | | | | |
| | | **Sqm** | | | | | | | |
| | (Page No-340, Item No-29.64 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 5.00 | | | | | | | |
| | Area weightage 6% | 0.30 | | | | | | | |
| | Total | 5.30 | | | | | | | |
| | **New CC roads** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Road Upto Culvert | | 1 | 90.00 | 3.60 | | 324.00 | | |
| | Cross Roads-1 | | 1 | 33.00 | 3.20 | | 105.60 | | |
| | Cross Roads-2 | | 1 | 29.00 | 2.50 | | 72.50 | | |
| | Cross Roads-3 | | 1 | 20.00 | 2.30 | | 0.00 | | |
| | Tar Main road | | 1 | 230.00 | 4.40 | | 1012.00 | | |
| | **Venkatappa Badavane** | | | | | | | | |
| | Cross Road-1 | | 1 | 85.00 | 4.00 | | 340.00 | | |
| | Cross Road-2 | | 1 | 80.00 | 4.00 | | 320.00 | | |
| | Cross Road-3 | | 1 | 140.00 | 4.00 | | 560.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 3.80 | | 0.00 | | |
| | Temple Left | | 1 | 31.00 | 2.70 | | 83.70 | | |
| | | | | | | | **2817.80** | **5.30** | **14934.34** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | KSRRB M400-6.1. Construction of granular sub-base of Grading II Material by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method | | | | | | | | |
| | | **Cum** | | | | | | | |
| | (Page No-155, Item No-20.4.2 KPWD S.R 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 1571.00 | | | | | | | |
| | Area weightage 6% | 94.26 | | | | | | | |
| | Total | 1665.26 | | | | | | | |
| | **New CC roads** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Road Upto Culvert | | 1 | 90.00 | 3.60 | 0.15 | 48.60 | | |
| | Cross Roads-1 | | 1 | 33.00 | 3.20 | 0.15 | 15.84 | | |
| | Cross Roads-2 | | 1 | 29.00 | 2.50 | 0.15 | 10.88 | | |
| | Cross Roads-3 | | 1 | 20.00 | 2.30 | 0.15 | 0.00 | | |
| | 1st Main road | | 1 | 230.00 | 4.40 | 0.15 | 151.80 | | |
| | **Venkatappa Badavane** | | | | | | | | |
| | Cross Road-1 | | 1 | 85.00 | 4.00 | 0.15 | 51.00 | | |
| | Cross Road-2 | | 1 | 80.00 | 4.00 | 0.15 | 48.00 | | |
| | Cross Road-3 | | 1 | 140.00 | 4.00 | 0.15 | 84.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 3.80 | 0.15 | 0.00 | | |
| | Temple Left | | 1 | 31.00 | 2.70 | 0.15 | 12.56 | | |
| | | | | | | | **422.67** | **1665.26** | **703855.44** |
| | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)in R.C.C works laid in 10cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc. complete (exclusive of cost of steel and fabrication charges.) Page No. 19/ Item No. 4.48/ SR 2016-17 | | | | | | | | |
| | | **Cum** | | | | | | | |
| | (Page No-177, Item No-22.6.1 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 5879.00 | | | | | | | |
| | Area weightage 6% | 352.74 | | | | | | | |
| | Total | 6231.74 | | | | | | | |
| | **New CC roads** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Road Upto Culvert | | 1 | 90.00 | 3.60 | 0.15 | 48.60 | | |
| | Cross Roads-1 | | 1 | 33.00 | 3.20 | 0.15 | 15.84 | | |
| | Cross Roads-2 | | 1 | 29.00 | 2.50 | 0.15 | 10.88 | | |
| | Cross Roads-3 | | 1 | 20.00 | 2.30 | 0.15 | 0.00 | | |
| | 1st Main road | | 1 | 230.00 | 4.40 | 0.15 | 151.80 | | |
| | **Venkatappa Badavane** | | | | | | | | |
| | Cross Road-1 | | 1 | 85.00 | 4.00 | 0.15 | 51.00 | | |
| | Cross Road-2 | | 1 | 80.00 | 4.00 | 0.15 | 48.00 | | |
| | Cross Road-3 | | 1 | 140.00 | 4.00 | 0.15 | 84.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 3.80 | 0.15 | 0.00 | | |
| | Temple Left | | 1 | 31.00 | 2.70 | 0.15 | 12.56 | | |
| | | | | | | | **422.67** | **6231.74** | **2633969.55** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 12 | Vaccum **de-watering with vaccum pump** and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. (P.No-177, I No-22.7) | | | | | | | | |
| | | **Cum** | | | | | | | |
| | (Page No-177, Item No-22.6.1 KPWD SR 2016-17) | | | | | | | | |
| | **Rate anlysis** | | | | | | | | |
| | Basic rate | 90.00 | | | | | | | |
| | Area weightage 6% | 5.40 | | | | | | | |
| | Total | 95.40 | | | | | | | |
| | **New CC roads** | | | | | | | | |
| | **Venkatala Village** | | | | | | | | |
| | Lake Road Upto Culvert | | 1 | 90.00 | 3.60 | | 324.00 | | |
| | Cross Roads-1 | | 1 | 33.00 | 3.20 | | 105.60 | | |
| | Cross Roads-2 | | 1 | 29.00 | 2.50 | | 72.50 | | |
| | Cross Roads-3 | | 1 | 20.00 | 2.30 | | 0.00 | | |
| | 1st Main road | | 1 | 230.00 | 4.40 | | 1012.00 | | |
| | **Venkatappa Badavane** | | | | | | | | |
| | Cross Road-1 | | 1 | 85.00 | 4.00 | | 340.00 | | |
| | Cross Road-2 | | 1 | 80.00 | 4.00 | | 320.00 | | |
| | Cross Road-3 | | 1 | 140.00 | 4.00 | | 560.00 | | |
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 62.00 | 3.80 | | 0.00 | | |
| | Temple Left | | 1 | 31.00 | 2.70 | | 83.70 | | |
| | | | | | | | **2817.80** | **95.40** | **268818.12** |
| 13 | Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.6.1 Page No 178 SR 2016-17 | | | | | | | | |
| | | 115.00 | | | | | | | |
| | | 6.90 | | | | | | | |
| | | 121.90 | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | 1 | 18.00 | 3.60 | | 64.80 | | |
| | | | 1 | 7.00 | 3.20 | | 22.40 | | |
| | | | 1 | 6.00 | 2.50 | | 15.00 | | |
| | | | 1 | 4.00 | 2.30 | | 0.00 | | |
| | | | 1 | 46.00 | 4.40 | | 202.40 | | |
| | | | | | | | | | |
| | | | 1 | 17.00 | 4.00 | | 68.00 | | |
| | | | 1 | 16.00 | 4.00 | | 64.00 | | |
| | | | 1 | 28.00 | 4.00 | | 112.00 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | **Valmiki Nagara** | | | | | | | | |
| | Anjaneya swamy temple road | | 1 | 12.00 | 3.80 | | 0.00 | | |
| | Temple Left | | 1 | 6.00 | 2.70 | | 16.20 | | |
| | | | | | | | **564.80** | **121.90** | **68849.12** |
| 4 | Total | | | | | | | | **9900713.69** |
| | Third party inspection 1% | | | | | | | | **99007.14** |
| 5 | Miscllenous and other charges | | | | | | | | **279.17** |
| 6 | **Grand Total** | | | | | | | | **10000000.00** |

**Certificate:-**

1. That the workspot inspected by me and found work is necessary.
2. That the area comes with in the Bruhat Bangalore Mahanagara Palike Limits.
3. That the rates are adopted based on the PWD SR of 2016-17
4. That the provisions made in the estimate are necessary and quite essential.

**Asst. Engineer**
**Ward No-01**
**BBMP**

**Asst. Exe. Engineer**
**Sub Division**
**BBMP**

**Executive Engineer**
**Yelahanka Division**
**BBMP**
5/3/18

**Administrative Approval**

Accorded For Rs. 100.00 Lakhs.
Head of A/C P-1878
CER NO :33 Dt:18/02/19

E.E. (Project)
F18/2

**Technical Sanction**

Accorded For Rs. 100.00 Lakhs.
Head of A/C P-1878
CER NO TS/836A/17-18 Dt:13.03.18

TA CE (YNK)